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electrode layers (10, 11) that function as electrodes, wherein these first and second electrode layers (10, 11) alternately contact a first and second electrically conductive common electrode connection (12, 13), the improvement wherein the actuator body (1) has an internal longitudinal bore (2) and at least the first common electrode connection (12) is provided on the inner wall (3) of the actuator body (1) constituted by the internal longitudinal bore (2) and contacts every first electrode layer (10) there, wherein the second common electrode connection (13) is also provided on the inner wall (3) of the actuator body (1) and contacts every second electrode layer (11) there, and the first and second electrode connections (12, 13) constitute narrow electrode strips that are disposed diametrically opposite each other and extend in the longitudinal direction of the actuator body (1).

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15. (Amended) A piezoelectric actuator for actuating control valves or injection valves of internal combustion engines in motor vehicles, comprising a circular, cylindrical piezoelectric actuator body (1) in the form of a multilayered laminate made up of stacked layers of piezoelectric material with intervening metallic or electrically conductive, alternating first and second electrode layers (10, 11) that function as electrodes, wherein these first and second

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electrode layers (10, 11) alternately contact [a] first and second electrically conductive common electrode connections (12, 13), said first and second electrode layers (10, 11) respectively include portions which are disposed on the outer cylinder wall (4) of the actuator body (1) at points that are angularly offset from one another, and each portion from each of the first and second electrode layers contacts [and contact] the first and second electrode connections (12, 13).

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20. (Amended) The piezoelectric actuator according to claim 15, wherein the first and/or second electrode connection (12, 13) constitutes a contact surface in the form of a section of a cylinder circumference extending in the circumferential direction at least a substantial extent, and also extending in the longitudinal direction of the actuator body (1).

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27. (Amended) The piezoelectric actuator according to claim 16, wherein the first and/or second electrode connection (12, 13) constitutes a contact surface in the form of a section of a cylinder circumference extending in the circumferential direction at least a substantial extent, and also extending in the longitudinal direction of the actuator body (1).

28. (Amended) The piezoelectric actuator according to claim

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21, wherein the first and/or second electrode connection (12, 13) constitutes a contact surface in the form of a section of a cylinder circumference extending in the circumferential direction at least a substantial extent, and also extending in the longitudinal direction of the actuator body (1).

29. (Amended) The piezoelectric actuator according to claim 17, wherein the first and/or second electrode connection (12, 13) constitutes a contact surface in the form of a section of a cylinder circumference extending in the circumferential direction at least a substantial extent, and also extending in the longitudinal direction of the actuator body (1).

30. (Amended) The piezoelectric actuator according to claim 18, wherein the first and/or second electrode connection (12, 13) constitutes a contact surface in the form of a section of a cylinder circumference extending in the circumferential direction at least a substantial extent, and also extending in the longitudinal direction of the actuator body (1).

31. (Amended) The piezoelectric actuator according to claim 19, wherein the first and/or second electrode connection (12, 13) constitutes a contact surface in the form of a section of a cylinder circumference extending in the circumferential